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Relevance scale **1 Continuous learning: a design methodology for fault-tolerant neural networks** Vincenzo PiuriJune 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is guaranteed by the reactivation of learning mechanisms ...

2 Pattern-based fault diagnosis using neural networks

W. E. Dietz, E. L. Kiech, M. Ali

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**

Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The detection and diagnosis of faults in real time are active areas of research in knowledge-based expert systems. Several methods of diagnosis have been applied to a variety of physical systems. Rule-based approaches have been applied successfully to some domains. However, encoding knowledge in rule bases raises many difficult knowledge acquisition issues; in addition, rule-based systems are often too slow to be effectively applied in a real-time environment. More advanced diagnostic syste ...

3 Network restoration using recurrent neural networks

G. Prem Kumar, P. Prem Venkataram

October 1998 **International Journal of Network Management**, Volume 8 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(219.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, a method is proposed for network restoration using a centralized, static

restoration after failure, where the restoration initiated at the local node or at the source uses a hybrid strategy. © 1998 John Wiley & Sons, Ltd.

4 Connectionist expert systems



Stephan I. Gallant
February 1988 **Communications of the ACM**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(1.88 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Connectionist networks can be used as expert system knowledge bases. Furthermore, such networks can be constructed from training examples by machine learning techniques. This gives a way to automate the generation of expert systems for classification problems.

5 Fuzzy measures in inductive reasoning

DongHui Li, Fran ois E. Cellier

December 1990 **Proceedings of the 22nd conference on Winter simulation**

Publisher: IEEE Press

Full text available: pdf(1.31 MB)

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6 Neural network approach to zero-one optimal covering problem

A. R. Khan, A. R. Marudarajan, C. A. Goben

April 1991 **Proceedings of the 24th annual symposium on Simulation**

Publisher: IEEE Computer Society Press

Full text available: pdf(746.09 KB)

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7 The use of the electrical simulator SPICE for behavioral simulation of artificial neural networks

Vincenzo Piuri

April 1991 **Proceedings of the 24th annual symposium on Simulation**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.27 MB)

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8 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB)

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9 A comparative study of neural network algorithms applied to optical character recognition



P. Patrick van der Smagt

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available:  pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three simple general purpose networks are tested for pattern classification on an optical character recognition problem. The feed-forward (multi-layer perceptron) network, the Hopfield network and a competitive learning network are compared. The input patterns are obtained by optically scanning images of printed digits and uppercase letters. The resulting data is used as input for the networks with two-state input nodes; for others, features are extracted by template matching and pi ...

10 A study of the applicability of hopfield decision neural nets to VLSI CAD 

 M. L. Yu

June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available:  pdf(778.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hopfield decision neural nets have been claimed to be good for solving a class of optimization problems such as the traveling salesman's problem. A study was undertaken to determine if these techniques were applicable to the many optimization problems that occur in VLSI circuit design and layout. Module placement was chosen as a representative problem. It was observed that the convergence process closely resembles that of greedy hill climbing algorithms. Apart from the known problems of lon ...

11 Optimal communication algorithms for regular decompositions on the hypercube 

 G. C. Fox, W. Furtmanski

January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**

Publisher: ACM Press

Full text available:  pdf(4.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We discuss optimal communication and decomposition algorithms for a class of regular problems on concurrent computers with a hypercube topology, using a general technique we call the method of cube geodesics. We address the calculation of various transformations (convolutions, functionals etc.) of data distributed over the hypercube; examples are the Fast Fourier Transform, matrix algorithms, global scalar products and vector sums, sorting. These all involve long distance inter ...

12 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

13 Algorithms for the optimal loading of recursive neural nets 

V. Chandru, A. Dattasharma, S. S. Keerthi, N. K. Sancheti, V. Vinay

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: [pdf\(918.30 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

14 What have we learnt from using real parallel machines to solve real problems?

G. C. Fox

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Publisher: ACM Press

Full text available: [pdf\(4.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

15 The cognitive architecture project

Dan Hammerstrom, David Maier, Shreekant Thakkar

January 1986 **ACM SIGARCH Computer Architecture News**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: [pdf\(993.33 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

16 Toward memory-based reasoning

Craig Stanfill, David Waltz

December 1986 **Communications of the ACM**, Volume 29 Issue 12

Publisher: ACM Press

Full text available: [pdf\(1.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The intensive use of memory to recall specific episodes from the past—rather than rules—should be the foundation of machine reasoning.

17 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

18 Neural nets for image restoration

 A. D. Kulkarni

January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**

Publisher: ACM Press

Full text available:  pdf(584.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No imaging system in practice is perfect, in fact the recorded images are always distorted or of finite resolution. An image recording system can be modeled by a Fredholm integral equation of the first kind. An inversion of the kernel representing the system, in the presence of noise, is an ill posed problem. The direct inversion often yields an unacceptable solution. In this paper, we suggest an Artificial Neural Network (ANN) architecture to solve ill posed problems in the presence of noi ...

19 The object-oriented paradigm and neurocomputing

 Paul S. Prueitt, Robert M. Craig

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Publisher: ACM Press

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Simple distributed algorithms for the cycle cutset problem

 Arun Jagota, Rina Dechter

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Publisher: ACM Press

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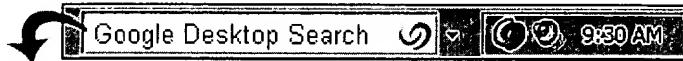
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Wakamura, M.; Maeda, Y.;
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25-28 Jan. 2000 Page(s):7 - 8
Digital Object Identifier 10.1109/ASPDAC.2000.835052
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7. **FPGA based implementation of a Hopfield neural network for solving con
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Abramson, D.; Smith, K.; Logothetis, P.; Duke, D.;
Euromicro Conference, 1998. Proceedings. 24th
Volume 2, 25-27 Aug. 1998 Page(s):688 - 693 vol.2
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8. **VLSI implementation of a neural network classifier**
Mandisodza, R.L.K.; Luke, D.M.; Poche, P.;
Electrical and Computer Engineering, 1996. Canadian Conference on
Volume 1, 26-29 May 1996 Page(s):178 - 181 vol.1
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